

**ENGINEERING MATHEMATICS TEST SERIES**

**GATE 2019 SCHEDULE: COMPUTER SCIENCE & INFORMATION TECHNOLOGY**

Test Date	Test Type	Syllabus [ EM- Engineering Mathematics]	No. of Question	Marks	Duration
30/07/2018	EM: Minor Test- 1	<b>LINEAR ALGEBRA</b> : Matrices, determinants, system of linear equations, eigenvalues and eigenvectors, LU decomposition.	33	50	90 min
30/08/2018	EM: Minor Test- 2	<b>CALCULUS</b> : Limits, continuity and differentiability. Maxima and minima. Mean value theorem. Integration.	33	50	90 min
29/09/2018	EM: Minor Test- 3	<b>SET THEORY &amp; ALGEBRA</b> : Sets; Relations; Functions; Groups; Partial Orders; Lattice. <b>COMBINATORY</b> : Counting; Generating functions; Recurrence relations.	33	50	90 min
30/10/2018	EM: Minor Test- 4	<b>MATHEMATICAL LOGIC</b> : Propositional Logic; First Order Logic. <b>GRAPH THEORY</b> : Connectivity; Matching; Colouring.	33	50	90 min
30/11/2018	EM: Minor Test- 5	<b>PROBABILITY</b> : Random variables. Uniform, normal, exponential, poisson and binomial distributions. Mean, median, mode and standard deviation. Conditional probability and Bayes theorem.	33	50	90 min